

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query   | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|------|--|------------------------|------------------|---------|------------------|
| S45   | 1396 | carbon and chromium and manganese and (weld\$3 solder\$3) and ("219".clas. "428".clas.)  | US-PGPUB; USPAT        | OR               | ON      | 2011/03/21 10:46 |
| S46   | 707  | carbon same chromium same manganese and (weld \$3 solder\$3) and ("219".clas. "428".clas.)   | US-PGPUB; USPAT        | OR               | ON      | 2011/03/21 10:47 |
| S47   | 200  | (carbon with chromium with manganese).clm. and (weld \$3 solder\$3) and ("219".clas. "428".clas.)  | US-PGPUB; USPAT        | OR               | ON      | 2011/03/21 10:47 |
| S48   | 82   | (carbon with chromium with manganese).clm. and (weld \$3 solder\$3) and melt and ("219".clas. "428".clas.)   | US-PGPUB; USPAT        | OR               | ON      | 2011/03/21 10:55 |
| S49   | 55   | (carbon with chromium with manganese).clm. and hard \$1fac\$3  | US-PGPUB; USPAT        | OR               | ON      | 2011/03/21 10:56 |
| S55   | 43   | (carbon with chromium with manganese) and hard\$1fac \$3   | EPO; JPO; DERWENT      | OR               | ON      | 2011/03/21 11:26 |
| S57   | 1    | "3862840".pn.  | US-PGPUB; USPAT        | OR               | ON      | 2011/03/21 11:34 |
| S58   | 14   | ("2828226"   "2833638"   "3329487"   "3372024"   "3502466"   "3689257").PN. OR ("3862840").URPN.   | US-PGPUB; USPAT; USOCR | OR               | ON      | 2011/03/21 11:40 |
| S59   | 16   | ("2998322"   "3862840"   "3989863"   "4195764"   "4563329"   "4596692"   "4701357"   "4842953"   "4851188"   "4937042"   "Re28552").PN. OR ("5812926").URPN. | US-PGPUB; USPAT; USOCR | OR               | ON      | 2011/03/21 11:41 |
| S60   | 19   | ("2030342"   "2097177"   "2180549"   "3257178"   "3361560").PN. OR ("RE28552").URPN.   | US-PGPUB; USPAT; USOCR | OR               | ON      | 2011/03/21 11:44 |
| S61   | 11   | (hard\$1fac\$3) with (alloy consumable) same ((melt\$3) with (carbon chromium manganese))  | US-PGPUB; USPAT        | OR               | ON      | 2011/03/21 11:52 |

|     |    |  |                        |    |    |                  |
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| S62 | 31 | (hard\$1fac\$3) with (alloy consumable) and (consumable melt\$3)   | EPO; JPO; DERWENT      | OR | ON | 2011/03/21 11:55 |
| S65 | 1  | "7491910".pn.  | USPAT                  | OR | ON | 2011/03/21 12:25 |
| S66 | 12 | ("20040173592"   "20060081579"   "20060144836"   "20060186103"   "20070181549"   "4800131"   "5120931"   "5519186"   "6331688"   "6339209"   "6835913"   "7270719").PN. OR ("7491910").URPN.   | US-PGPUB; USPAT; USOCR | OR | ON | 2011/03/21 12:25 |
| S67 | 16 | ("2510205"   "2906860"   "3180969"   "3344305"   "5120931"   "5365036"   "5861605"   "5914061"   "5945064"   "6124569").PN. OR ("6835913").URPN.   | US-PGPUB; USPAT; USOCR | OR | ON | 2011/03/21 12:26 |
| S69 | 99 | (melt\$3) with powder same hard\$1fac\$3   | US-PGPUB; USPAT        | OR | ON | 2011/03/21 16:14 |
| S70 | 10 | "3076888".pn. "3000094".pn. "3060307".pn. "3062948".pn. "3407478".pn. "3494749".pn. "3513288".pn. "3517156".pn. "3588432".pn. "3609292".pn.  | US-PGPUB; USPAT        | OR | ON | 2011/03/21 16:19 |
| S71 | 10 | ("20020084111"   "20030000339"   "4525178"   "5290507"   "5880382"   "6659206"   "6682580"   "RE37127").PN. OR ("7250069").URPN.   | US-PGPUB; USPAT; USOCR | OR | ON | 2011/03/21 16:26 |
| S72 | 51 | ("2033594"   "2407642"   "2660405"   "3158214"   "3260579"   "3768984"   "3800891"   "3989554"   "4043611"   "4262761"   "4414029"   "4455278"   "4499958"   "4562892"   "4597456"   "4611673"   "4630692"   "4666797"   "4726432"   "4762028"   "4781770"   "4836307"   "4884477"   "4944774"   "5038640"   "5051112"   "5089182"   "5152194"   "5291807"   "5492186").PN. OR ("RE37127").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2011/03/21 16:28 |
| S73 | 14 | (melt\$3) with powder and hard\$1fac\$3  | EPO; JPO; DERWENT      | OR | ON | 2011/03/21 16:30 |

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| S74 | 23   | (melt\$3) and powder and hard\$1fac\$3   | EPO; JPO; DERWENT                  | OR | ON | 2011/03/21 16:30 |
| S79 | 1    | "5030814".pn.  | US-PGPUB; USPAT                    | OR | ON | 2011/03/21 16:39 |
| S80 | 1    | "5226977".pn.  | US-PGPUB; USPAT                    | OR | ON | 2011/03/21 16:43 |
| S81 | 14   | ("4485770"   "4583502"   "4878953"   "4902359"   "4946749"   "5035958"   "5077140"   "5084113").PN. OR ("5226977").URPN. | US-PGPUB; USPAT; USOCR             | OR | ON | 2011/03/21 16:48 |
| S82 | 2302 | hard\$1fac\$3  | US-PGPUB; USPAT                    | OR | ON | 2011/03/21 16:59 |
| S83 | 1597 | hard\$1fac\$3 and carbide  | US-PGPUB; USPAT                    | OR | ON | 2011/03/21 16:59 |
| S84 | 27   | hard\$1fac\$3 and (free near2 carbon)  | US-PGPUB; USPAT                    | OR | ON | 2011/03/21 16:59 |
| S85 | 8    | ("3879901"   "3920410"   "5096465"   "5184662"   "5292477"   "5755298"   "5876793"   "6540800").PN. OR ("6641918").URPN. | US-PGPUB; USPAT; USOCR             | OR | ON | 2011/03/21 17:05 |
| S86 | 1    | "4873150".pn.  | US-PGPUB; USPAT; USOCR             | OR | ON | 2011/03/21 17:10 |
| S87 | 314  | (melt\$3 near4 (alloy powder)) and hard\$1fac\$3 and (weld\$3)   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2011/03/21 17:17 |
| S88 | 304  | (melt\$3 near4 (alloy powder)) and hard\$1fac\$3 and (weld\$3)   | US-PGPUB; USPAT                    | OR | ON | 2011/03/21 17:17 |
| S89 | 131  | (melt\$3 near4 (alloy powder)) same hard\$1fac\$3  | US-PGPUB; USPAT                    | OR | ON | 2011/03/21 17:18 |
| S90 | 9    | ("3733678"   "3746518"   "3834002").PN. OR ("3972108").URPN.   | US-PGPUB; USPAT; USOCR             | OR | ON | 2011/03/21 17:20 |
| S91 | 18   | ("3746518").URPN.  | USPAT                              | OR | ON | 2011/03/21 17:23 |
| S92 | 9    | ("3733678"   "3746518"   "3834002").PN. OR ("3972108").URPN.   | US-PGPUB; USPAT; USOCR             | OR | ON | 2011/03/21 17:24 |
| S93 | 18   | ("3746518").URPN.  | USPAT                              | OR | ON | 2011/03/21 17:33 |
| S94 | 52   | (hard\$1fac\$4 near4 (making producing))   | USPAT                              | OR | ON | 2011/03/21 17:34 |
| S95 | 71   | (hard\$1fac\$4 near4 (making producing))   | US-PGPUB; USPAT                    | OR | ON | 2011/03/21 17:34 |
| S96 | 9    | ("3733678"   "3746518"   "3834002").PN. OR ("3972108").URPN.   | US-PGPUB; USPAT; USOCR             | OR | ON | 2011/03/21 17:38 |

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|------|------|--|----------------------------|----|----|------------------|
| S97  | 25   | (hard\$1fac\$4 with (making producing))  | EPO; JPO; DERWENT          | OR | ON | 2011/03/21 17:43 |
| S100 | 1    | "20080251507".pn.  | US-PGPUB; USPAT            | OR | ON | 2011/03/21 18:03 |
| S101 | 144  | ferro\$1chromium and (weld \$3)  | US-PGPUB; USPAT            | OR | ON | 2011/03/21 18:20 |
| S102 | 7    | ferro\$1chromium and (hard \$1fac\$3)  | US-PGPUB; USPAT            | OR | ON | 2011/03/21 18:21 |
| S103 | 1    | "2810063".pn.  | US-PGPUB; USPAT            | OR | ON | 2011/03/21 18:23 |
| S104 | 7    | ferro\$1chromium\$1 and (hard\$1fac\$3)  | US-PGPUB; USPAT            | OR | ON | 2011/03/21 18:24 |
| S105 | 2    | ferro\$1chromium\$1 and (hard\$1fac\$3)  | EPO; JPO; DERWENT          | OR | ON | 2011/03/21 18:24 |
| S106 | 2    | (free near2 carbon) and (hard\$1fac\$3)  | EPO; JPO; DERWENT          | OR | ON | 2011/03/21 18:56 |
| S107 | 27   | (free near2 carbon) and (hard\$1fac\$3)  | US-PGPUB; USPAT            | OR | ON | 2011/03/21 18:56 |
| S108 | 1    | "3862840".pn.  | US-PGPUB; USPAT            | OR | ON | 2011/03/21 18:58 |
| S109 | 3677 | (free near2 carbon) and (graphite)   | US-PGPUB; USPAT            | OR | ON | 2011/03/21 18:58 |
| S110 | 14   | (free near2 carbon) and (graphite) and hard\$1fac\$3   | US-PGPUB; USPAT            | OR | ON | 2011/03/21 18:59 |
| S111 | 28   | (US-3862840-\$ or US-3663313-\$ or US-3700851-\$ or US-5740872-\$ or US-5743033-\$ or US-5879743-\$ or US-5812926-\$ or US-4504312-\$ or US-5030814-\$ or US-5226977-\$ or US-4873150-\$ or US-3972108-\$ or US-4678523-\$ or US-4487630-\$ or US-4430297-\$ or US-4415532-\$ or US-5015823-\$ or US-2810063-\$ or US-5695825-\$ or US-3890137-\$).did. or (US-2807562-\$ or US-3334975-\$ or US-1708815-\$).did. or (GB-2039950-\$).did. or (WO-2005078156-\$ or US-20060165552-\$ or US-20060165551-\$ or JP-02274386-\$).did. | USPAT; USOOR; EPO; DERWENT | OR | ON | 2011/03/21 19:12 |
| S112 | 0    | S111 and (scrap)   | US-PGPUB; USPAT            | OR | ON | 2011/03/21 19:12 |
| S113 | 55   | scrap and hard\$1fac\$3  | US-PGPUB; USPAT            | OR | ON | 2011/03/21 19:12 |
| S114 | 12   | (white adj cast) and hard \$1fac\$3  | US-PGPUB; USPAT            | OR | ON | 2011/03/21 19:18 |

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|------|-----|---|-------------------|----|----|------------------|
| S116 | 3   | (white adj cast) and hard \$1fac\$3   | EPO; JPO; DERWENT | OR | ON | 2011/03/21 19:20 |
| S117 | 5   | ((white adj cast) scrap) and hard\$1fac\$3                                  | EPO; JPO; DERWENT | OR | ON | 2011/03/21 19:22 |
| S118 | 66  | ((white adj cast) scrap) and hard\$1fac\$3                                  | US-PGPUB; USPAT   | OR | ON | 2011/03/21 19:23 |
| S119 | 356 | (steel with iron) and hard \$1fac\$3  | US-PGPUB; USPAT   | OR | ON | 2011/03/21 19:31 |
| S120 | 10  | (iron with scrap) and hard \$1fac\$3  | US-PGPUB; USPAT   | OR | ON | 2011/03/21 19:31 |
| S121 | 11  | (chromium with white) and hard\$1fac\$3                                     | US-PGPUB; USPAT   | OR | ON | 2011/03/21 19:33 |
| S122 | 1   | "4225689".pn.   | US-PGPUB; USPAT   | OR | ON | 2011/03/21 19:36 |
| S123 | 1   | (scrap with iron) and hard \$1fac\$3  | EPO; JPO; DERWENT | OR | ON | 2011/03/22 10:48 |
| S124 | 4   | (white with cast) and hard \$1fac\$3  | EPO; JPO; DERWENT | OR | ON | 2011/03/22 10:51 |
| S125 | 15  | (white with cast) and hard \$1fac\$3  | US-PGPUB; USPAT   | OR | ON | 2011/03/22 10:52 |
| S126 | 55  | (scrap) and hard\$1fac\$3   | US-PGPUB; USPAT   | OR | ON | 2011/03/22 10:53 |
| S127 | 1   | "2515463".pn.   | US-PGPUB; USPAT   | OR | ON | 2011/03/22 10:56 |
| S128 | 92  | ((chromium with carbon with (fraction ratio percent\$3))) and hard\$1fac\$3 | US-PGPUB; USPAT   | OR | ON | 2011/03/22 11:10 |
| S129 | 55  | 219/146.51.ccls.  | US-PGPUB; USPAT   | OR | ON | 2011/03/22 11:41 |
| S130 | 106 | 219/146.31.ccls.  | US-PGPUB; USPAT   | OR | ON | 2011/03/22 11:41 |
| S131 | 218 | 219/146.1.ccls.   | US-PGPUB; USPAT   | OR | ON | 2011/03/22 11:41 |
| S132 | 142 | 420/15.ccls.  | US-PGPUB; USPAT   | OR | ON | 2011/03/22 11:41 |
| S133 | 151 | 420/72.ccls.  | US-PGPUB; USPAT   | OR | ON | 2011/03/22 11:41 |
| S134 | 767 | 148/24.ccls.  | US-PGPUB; USPAT   | OR | ON | 2011/03/22 11:41 |
| S135 | 27  | (S129 S130 S131 S132 S133 S134) and @pd> = "20100714"                       | US-PGPUB; USPAT   | OR | ON | 2011/03/22 11:41 |

**EAST Search History (Interference)**

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**3/ 22/ 2011 2:13:22 PM**

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